

Forklift Drive Motors

Drive Motor for Forklifts - MCC's or Motor Control Centers are an assembly of one section or more that have a common power bus. These have been utilized in the vehicle business ever since the 1950's, because they were utilized many electric motors. Nowadays, they are used in a variety of commercial and industrial applications.

Motor control centers are a modern technique in factory assembly for several motor starters. This machinery can comprise variable frequency drives, programmable controllers and metering. The MCC's are usually seen in the electrical service entrance for a building. Motor control centers commonly are utilized for low voltage, 3-phase alternating current motors which range from 230 volts to 600 volts. Medium voltage motor control centers are made for big motors that range from 2300 volts to 15000 volts. These units make use of vacuum contractors for switching with separate compartments to be able to attain power control and switching.

Within factory locations and area that have corrosive or dusty processing, the MCC can be installed in climate controlled separated locations. Typically the MCC will be situated on the factory floor adjacent to the machinery it is controlling.

A MCC has one or more vertical metallic cabinet sections with power bus and provisions for plug-in mounting of individual motor controllers. Smaller controllers could be unplugged from the cabinet to complete maintenance or testing, while extremely large controllers can be bolted in place. Every motor controller consists of a contractor or a solid state motor controller, overload relays to protect the motor, fuses or circuit breakers to provide short-circuit protection and a disconnecting switch in order to isolate the motor circuit. Separate connectors allow 3-phase power to enter the controller. The motor is wired to terminals situated inside the controller. Motor control centers provide wire ways for field control and power cables.

Within a motor control center, each motor controller can be specified with lots of various options. Some of the options consist of: extra control terminal blocks, control switches, pilot lamps, separate control transformers, and various types of bi-metal and solid-state overload protection relays. They also have various classes of types of circuit breakers and power fuses.

There are various choices regarding delivery of MCC's to the customer. They can be delivered as an engineered assembly with interlocking wiring to a central control terminal panel board or programmable controller together with internal control. Conversely, they can be supplied prepared for the client to connect all field wiring.

Motor control centers usually sit on the floor and should have a fire-resistance rating. Fire stops can be required for cables that penetrate fire-rated walls and floors.